

FIG. 1

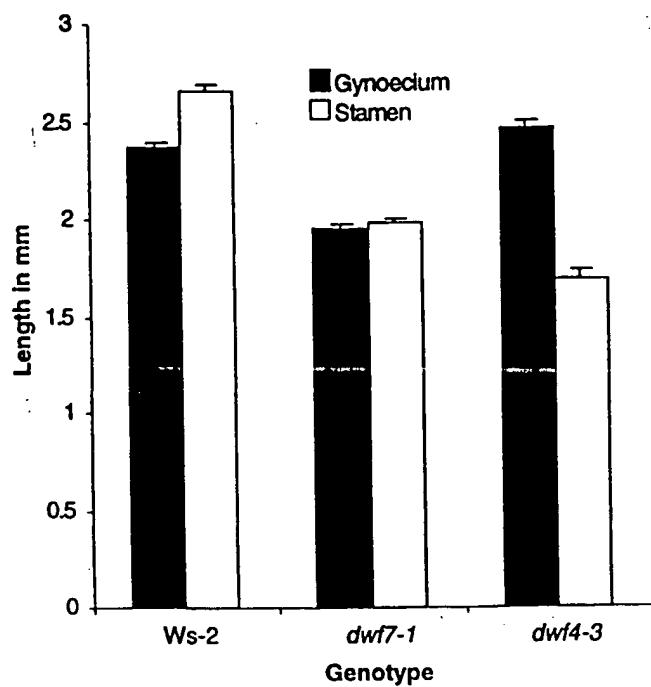


FIG. 2

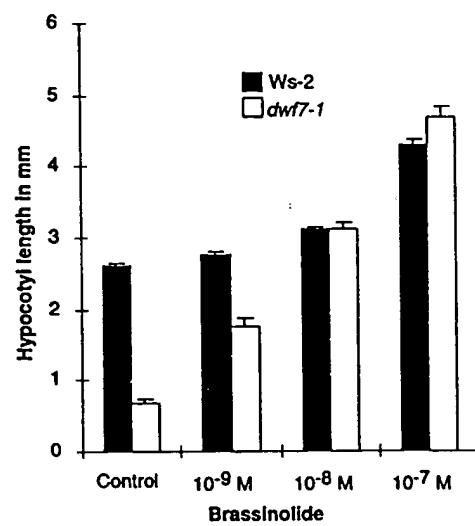


FIG. 3

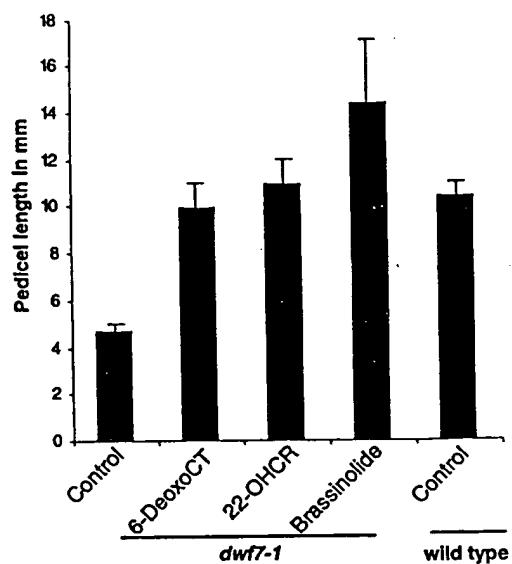


FIG. 4

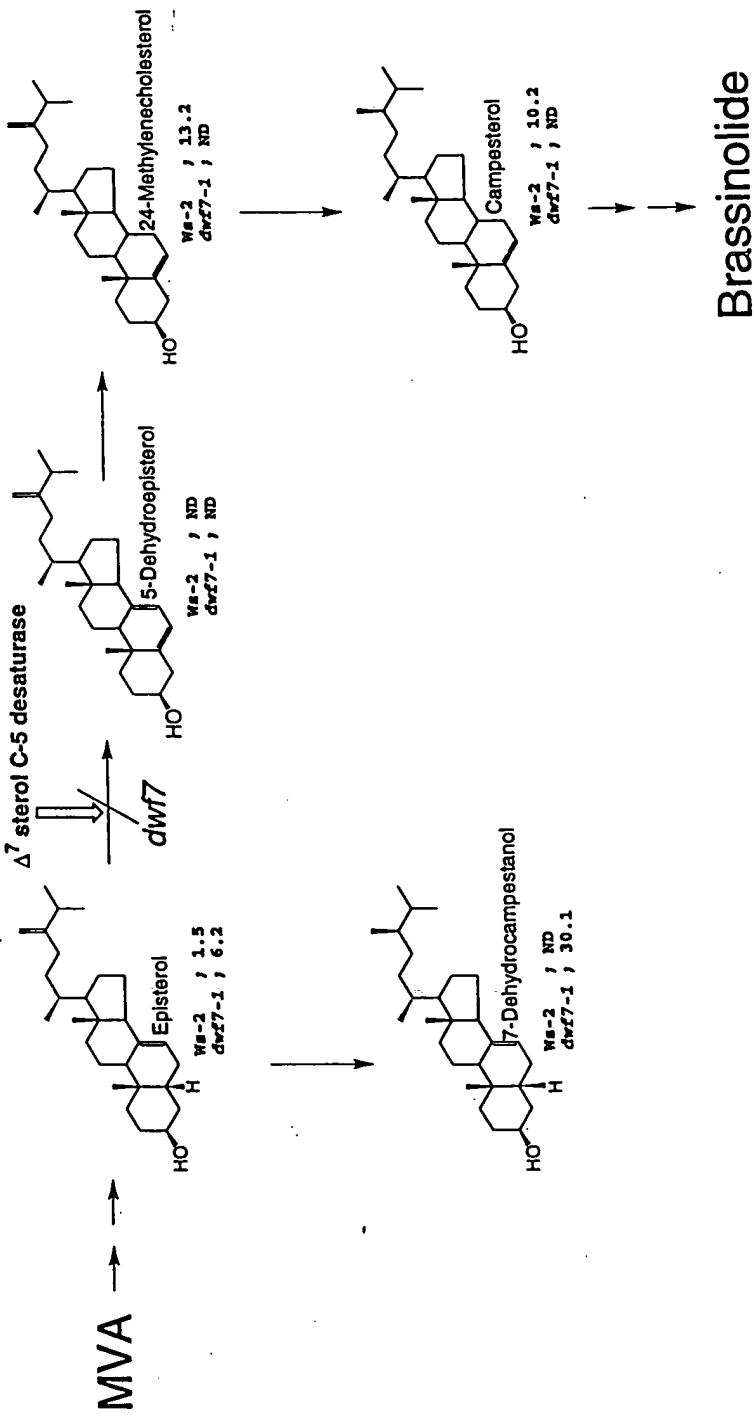


FIG. 5

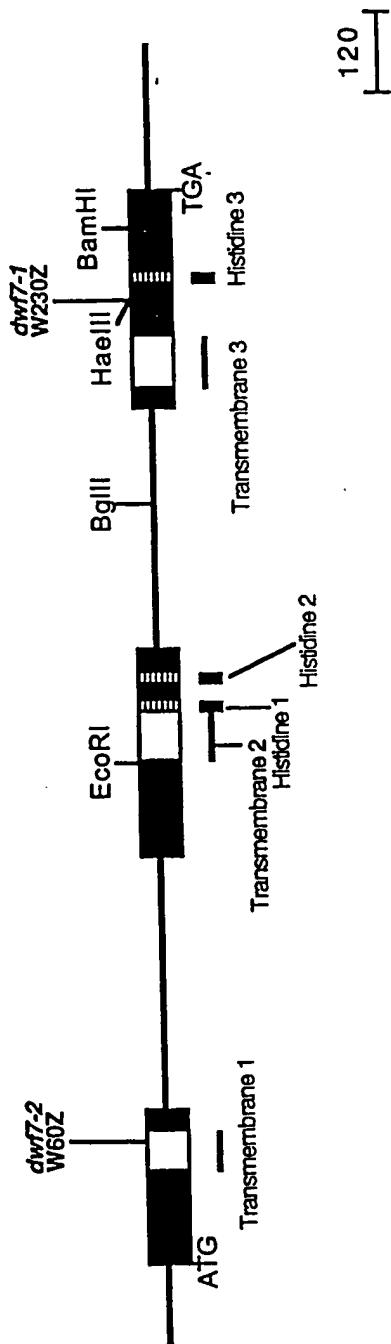


FIG. 6

*C. glabrata* 1 10 20 30 40  
*C. cerevisiae* MDLVLETLDHYLFDDVYAKIAAPVELORGIDDSLVLNALSUNKIVSNSTLH  
*S. pombe* MDLVLEVADHYVLDDLYAKVLPASLAANIPVKWQKLGLNSGFSNSTLH  
*DW7/STE1* MDVVLQYADKYYVDTFYGKII---AESFDSS-SSFA-NTAV-NSTLH  
*Consensus* mdvlvle-adhyvfdd-yaki-p-ia-id-s---t-in-vsnt-i  
  
50 60 70 80 90 100 110  
*HET* LSI TNSLXRVNKDVYGLTPFLDFE TEKTY - - - ASLLPRRNLLIR - - - EFFSLWAV  
*ELN* SKNAVKCRR FYGOVPFLFDM STISF - - - ASLLPRSSILR - - - EFLSLWVIT  
*TGL* - - - AEKVN - - - FAI T - - - SGLLDANNVWR - - - OFTSLFLI  
*etl* - - - - - MAADNAYLMOFVDETSYNRIVLSHLLPANLWEPLPHFLQTWLR  
  
120 130 140 150 160 170  
*VTV* FGLLLYLTLASL SYVVFVDFR TIFNHPK - - - YLKNOMYLEIKLAVASAIPTMSL  
*TFI* EGLLFLYLTASL SYVVFVDFK SIFNHPR - - - YLKNOMAMEIKLAVASAIPTMSL  
*TW* MGTLSVFLSASF AMVYVYDREARRHWRPK - - - FLKNOEHLIELMVALKNLPGMAIL  
*NYL* AGTLLYFISGFLWCFYIYKLINVYLPKDAIPTIK AMRLQMFVAMKAMPWYTLPLT  
*VII* FG-LIY-I-asl-sy-f-fd--ifn hPk - - - ylKnqm-leik-Av-aiPwmsl-T  
  
**Transmembrane I dw7-2 (W to Z)**  
  
180 190 200 210 220 230  
*VVP* FMEELNGYSKLYYYDVFHGGHLRKLULEYATFIFTDCGILYLAHRWLH - - WPRVYKAL  
*VPV* FVFMELNGHSKLYMKIDYENHGVKRLLIEYFTIFIFTDCGIVLAHRWLH - - WPRVYKAL  
*APW* LELAIFRGGYGYVYDKLDEEYGYFYLFESIALLELLFSDFLTYWIRHALHHRW - - LYAPL  
*VSE* SMLERGWTKCFASIDDEFGWI LYFVYIAIYLVEVEFGIYWMHRELBHDIKP LYKYL  
*vpwf* m-El - Gyskly-kid-E-nG-rkifile-atf-fFd-gly-aHRwlH - - wp - Ykal  
  
**Transmembrane II His I**  
  
240 250 260 270 280 290  
*HKP* HH - - - KWL VCTPFASHAFHPVDGYFOSLSYHIYPMI L - PLHKISYSL - - LFTFVNFWSV  
*HKP* HH - - - KWL VCTPFASHSFHPVDGFQOSLSYHIYPLL - PLHKVSYL - - LFTFVNFWTV  
*HKL* HH - - - KWL VPTPYSSASHAFHYLDGYSOSLSPHYHMPEFFF - PLNKVYVL - - LFGSVNYWTV  
*HATH* H YNKONTLSPFAGL4FHPVDGILQAVP-HVIALFIVPHTTTHIGLLFMEA-IWTA  
*Hk p* HH - - - Kwl vct P l a s h a F H p v D G y I Q s l - y H i y p i - - P i k h - s y - - L F t f v n f W i  
  
**Transmembrane III His II**  
  
300 310 320 330 340 350  
*MI* HDGOHMSNN - - - PVVNGTACHTVHHLYFNYNYGOFTTLW DRLGGSYRPP - - EDSLFDPK  
*MI* HDGOHMSNN - - - PAVNGTACHTVHHLYFNYNYGOFTTLW DRLGGSYRPP - - DDSLFDPK  
*LI* HDGKYFSNN - - - AVVNGAAAHAAHHMFNYNYGOFTTLE DRLCCSSYRQP - - DQELFDAAE  
*NI* HDCIH - - - GNI WPVM GAGYHTI HHTTYYKHNHYGHY TI WMDWMFGLSLRDPLEED - - DNK  
*mi* HDgg - - - s n N - - - p v v N g - a c h i V H H y f n y N Y G q f t T l w - D r i g g S y R P - - - d s l f D p k  
  
**dw7-1 (W to Z)**  
  
360 370 380 390  
*LKMD* - KXVLEKOAR - E T A A Y I Q E V E G D D T D R V Y N T D - K K K T N  
*LR* - DAKETWDAQVK - - E V E H F I K E V E G D D N D Y V E N D P N T K N  
*LRN* - - - K L Q E Q R I R F M E T V Q Y - - T V E G K D D R T Y - - - A S K K D N  
*l* r - d - K K - e - q - - - e t - - y i - - e v e g d d - d r - y - - d - k k - -

FIG. 7

**BEST AVAILABLE COPY**

10 20 30 40  
GAAGATCGATCAATCAATCATCAAACTCTCTGTGTGCCAC

50 60 70 80 90 100  
41 ATCCATTACT ACTCTTACT TGTTCAATTA ACGTAACATA AGATCAATCC CCCGAATCTT

110 120 130 140 150 160  
101 CTTTCGTTT CCGGCACCGA TCTCGGTGGA TCTCCGATTC ACATGCCCGC CCATTAATCT

170 180 190 200 210 220  
161 TATCTCATCC ACTTCTTGA CCGACCTCT TTTTCACACC CAATCGTTCT GACTCATCTT

Y L M Q F V D E T S F Y N R I V L S H L  
230 240 250 260 270 280  
221 TTCCCCCGCA ATCTATGCCA ACCCATTACT CATTTCCTCC ACGACCTCC CCGATTTAC

L P A N L H E P L P H F L Q T H L R H Y  
290 300 310 320 330 340  
281 CTCCCCGCA CCCTACTATA CTTCATCTCC CGTTTCCTCT GCTCCCTCTA CATCTATTAC

L A G T L L Y F I S G F L H C F Y I Y Y  
350 360 370 380 390 400  
341 CTTAAATCA ACGTTTACT TCCGACCGT CTCCGATTC ACTTTCTTAT TCACTATTCC

410 420 430 440 450 460  
401 TTAATCCCTT TCTATCTTAT CCATTCTTCA ATTTAACCA CGCCCTTCT TCCGTACTC

470 480 490 500 510 520  
461 TACACTTATT TCCATTCTAT CTGGATAGT CTGCTTCTCA TTTATTCATT ATTTCTGCA

530 540 550 560 570 580  
521 ATTCCTCATC TCACGATTC ACGACTTACT CCCTTATATA ACTTTTCTC CAACCATGA

590 600 610 620 630 640  
581 GAAGTCGTCAC ATCTTCTGAC TTGAAATTTC TCATTCCTAT TTAACCTCAC TTTAAATCTT

FIG. 8A

650 660 670 680 690 700  
641 TCTTCAGTC ATTCCTCTCTTTCAGACAA TTCTTTTCTT GCTTCCTGCA GACTCTCTCT  
[REDACTED]

710 720 730 740 750 760  
761 TACTTTCAA TCTTTTCC TCTCTTCC TTCAAGATCCA ATTCCTACAA TAAAGGCTAT  
[REDACTED]

D A I P T I K R H  
770 780 790 800 810 820  
761 GCTTTCAA ATCTTCTCTC CAAATGACCC TATGCCATCC TACACTCTTC TTCCACTG  
[REDACTED]

R L Q M F V A M K R M P H Y T L L P T V  
830 840 850 860 870 880  
821 CTCCGAGT ATGATGAC CTGGTTGAC CAAATGTTT CCTGGATAG ACCATTCC  
[REDACTED]

S E S M I E R G H T K C F A S I D E F G  
890 900 910 920 930 940  
881 CTGGATTCTG TATTTGTTT ACATGGGAT CTATCTCTT TTCCATTCT TTGGTATTA  
[REDACTED]

H I L Y F V Y I R I Y L V F V E F G I Y

950 960 970 980 990 1000  
941 TTGGATGAC ACAGAGCTTC ATGACATTA GCTCTCTCAT ATGATATCTCC ATGCCACCA  
[REDACTED]

W M H R E L H D I K P L Y K Y L H A T H  
1010 1020 1030 1040  
1001 TCTATCTAC ACAGAGCAAA ATGACATCTC TTGGTTTCCC C  
[REDACTED] →  
H I Y H K Q H T L S P F A .

FIG. 8B

1050 1060 1070 1080  
CTAAGCTTT TTCATTTGT TCTTCCTTG TTCTTGAAA

1090 1100 1110 1120 1130 1140  
1081 ACATTCCTAG CATTATGTTT CTTCACGAA AACGTTTGT CACCGCTCC TTCTACTCCA

1150 1160 1170 1180 1190 1200  
1141 ATATCAGTTT TCCATTCTT TCCATTAAG TACCCAGAA CCTCTGATT ATATAATGCT

1210 1220 1230 1240 1250 1260  
1281 CACCTGCATT ACTTCACATA TGTCAACAGC ACTTCTGACT TACCCAGCT TTAGATCTT

1270 1280 1290 1300 1310 1320  
1261 CTGTTCTCT TCTGGTCTCG GACTGATTCG AATGACCCG AACGTTTTT ATCTACTCC

1330 1340 1350 1360 1370 1380  
1321 CTGGACTGTA TCTTCCTTA TCCACCGATC TGTATCTAA TATTACTTGT AACCTCCAA

1390 1400 1410 1420 1430 1440  
1381 CGTTTTGTT TACAGGGCTT CCATTTAACCG CAGTACACCG CATACTTCAG CCTGTCACCC

G L R F H P V D C I L Q A V P  
1450 1460 1470 1480 1490 1500  
1441 ATGTCATACC CCTCTTATAA CTGGCAATTG ATTCACACG TGTATAGCT CTTTCTCA

H V I A L F I V P I H F T T H I G L L F  
1510 1520 1530 1540 1550 1560  
1501 TGGACCCAT ATGGACCCCG AACATCCATG ACTCCATCCA TCCACACTC TGGCCACAA

M E R I H T A N I H D C I H G N I H P V  
1570 1580 1590 1600 1610 1620  
1561 TGGCTGCCAGG ATACCATACC ATACACCAACG CCACATCAA CCATACATG CGTCATTTATA

H G A C Y H T I H H T T Y K H H Y C H Y

FIG. 8C

1638 1648 1658 1668 1678 1688  
1621 CCATATGGAT CGATTGGATC TTTGGCTCTC TTAGGGATCC TCTCTTACAA GAGATGACR  
T I H M D H M F G S L R D P L L E E D D  
1698 1708 1718 1728 1738 1748  
1681 ACAARAGACG CTTCAAGAAA GCGAGCTGAG ATGGCCACT TCGCTTTCT TCTTCTCTT  
H K D S F K K A E  
1758 1768 1778 1788 1798 1808  
1741 TGTCTTCTCT TCTTCTCTT CAACTTCTCA GCGTTCTCTG TCTTCTCTT TCTTCTCTT  
1818 1828 1838 1848 1858 1868  
1801 ATTCAATGCT CTCTCTCAGC CTTTCCATT ATTCTCTTAC AACATTTGC TGTCTAGTT  
1878 1888 1898  
1861 AACACATCTA ATCTTCTGAT CATCTTCCCA

FIG. 8D

1 MAADNAYLMQ FVDETSFYNR IVLSHLLPAN LWEPLPHFLQ TWLRNYLAGT  
51 LLYFISGFLW CFYIYYLKIN VYLPKDAIPT IKAMRLQMFV AMKAMPWYTL  
101 LPTVSESMIE RGWTKCFASI DEFGWILYFV YIAIYLVFVE FGIYWMHREL  
151 HDIKPLYKYL HATHHIYNKQ NTLSPFAGLA FHPVTDGILQA VPHVIALFIV  
201 PIHFTTHIGL LFMEAIWTAN IHDCIHGNIW PVMGAGYHTI HHTTYKHNYG  
251 HYTIWMDWMF GSLRDPPLLEE DDNKDSFKKA E

FIG. 9

10

30

50

GTTTGGTATTATTGGATGCACAGAGAGCTTCATGACATTAAGCCTCTCTATAAGTATCT  
CAAACCATAAATAACCTACGTGTCTCGAAGTACTGTAATTGGAGAGATATTGATAGA

70

90

110

CCATGCCACCCATCATATCTACAACAAGCAGAATACACTCTCCATTGCCGGTAAGTG  
GGTACGGTGGGTAGTATAGATGTTGTTCTATGTGAGAGAGGTAAACGGCCATTACAC

130

150

170

TTTTCAGTTGTTCTTCTTGTAAAGATTGGTAGCATTTAGTTCTTACCAAG  
AAAAGTCAAACAAGAAGAAATCAAGAACATTCTAACCATCGTAAATCAAAGAATGGTC

190

210

230

AAAAGACTTGTCAAGCAGCTGCTGTACTCCAAATCACATTGCAATTCTTATCCATAA  
TTTCTGAAACAGTCGTCGACGAACATGAGGTTAGTGTAAAACGTAAGGAATAGGTATT

250

270

290

AGTAACCAGAAAGGCTAGAATTATATAATGTCAGCTGCATTACTCACATATGTCAGAG  
TCATTGGTCTTCCGATCTTAATATTTACAGTCGACGTAATGAAGTGTATACAGTCTC

310

330

350

AGACTTCTGACTTAACCAAGAGTTAGATCTTGTGTTCTCTGGTCTCGGACTGATT  
TCTGAAGACTGAATTGGTCTCAAATCTAGAAACACAAAGAGAACGAGCCTGACTAA

370

390

410

GGAAATGACGAGAAGTTCTTTATCTACTTCCCTGGAGTGTATCTGGTTAACCAAGGA  
CCTTACTGCTCTCAAGAAATAGATGAAGGGACCTCACATAGAACCAATTAGGTCCT

430

450

470

TGTGACATCTAAATATTACTTGTAACTTCCTTACGTTTGTACAGGGCTTGCAATTCA  
ACACTGTAGATTATAATGAACATTGAAGGAATGCAAAACAAATGTCCCACGTAAGT

490

510

530

CCCACTAGACGGGATACTTAAGGCTGTACCGCATGTGATAGCGCTGTTATAGTGCATT  
GGTCATCTGCCCTATGAATTCCGACATGGCGTACACTATCGCGACAATATCACGGTTAA

550

570

590

CATTCACAACATAGGTCTTGTACGGAAGCGATATGGACGGCGAACATCCAT  
GTAAAGTGTGAGTATATCCAGAAAACAAGTACCTCGCTATACCTGCCGCTTAGGTA

FIG. 10A

610 630 650  
GACTGCATCCATGGCAACATCTGGCCAGTAATGGGTGCAGGATACCATACGATACACCACT  
CTGACGTAGGTACCGTTAGACCGGTCACTACCCACGCTATGGTATGCTATGTGGTG  
670 690 710  
ACGACATACAAGCATAACTATGGTCATTATACCATATGGATGGATTGGATGTTGGCTCT  
TGCTGTATGTTCTGTATTGATACCAAGTAATATGGTATACCTACCTAACCTACAAACCGAGA  
730 750 770  
CTTAGGGATCCTCTCTTAGAAGAAGATGACAACAAAGACAGCTTCAGAAAGCAGAGTGA  
GAATCCCTAGGAGAGAACCTTCTACTGTTGTTCTGCGAAGTTCTTCGTCTCACT  
790 810 830  
GAATGCCACTGGGTTTGTCTCTGTTGTCTCTGTTGTTGTTCAAAGTTCT  
CTTACGGGTGAACCCAAAACAAGAACAGAACACAACAACAAGTTCAAAG  
850 870 890  
AGCCTTCTGTTCTTTCTTCTTATTCATGTGTCTCTCAACCTTCAAAT  
TCGAAAGAACAAAGAAAAAGAAGAAGAACAGAACACAACAAGTTCAAAG  
910 930 950  
TATATTGTTACAAACATTGCTGTCTAGTTAAAACATGTAATGTTGATGATCTTGC  
ATATAACAATGTTGAAACGACAGATCAAATTGTACATTACAAACTACTAGAAACG  
970 990 1010  
AAGACTCCATTTGTTAAGGTAAACCTTGAATCTCATAGATTGTCATTGTTGGTATT  
TTCTGAGGTAAAACAAATTCCATTGGAACCTAGAGTATCTAACAGCTAACACCATAA  
1030 1050 1070  
TCCATTTCAAGGTACGGTCTGTAGACTGTAGTCTGCTGACCAGTCGGCTTAACCACC  
AGGTAAAAGTCATGCCAAGACATCTGACATCAGAACGACTGGTCAGGCCAATTGGTGG  
1090 1110 1130  
CCAAATTCAAGATCTCAACCAATCAAATGCTGGCTGGCCCAATATATAGATGGGCCA  
GGTTAAAGTTCTAGAGTGTAGTTACGACCGACCGGGGTTATATATCTACCCGGT  
1150 1170 1190  
GTTAATCCGTCTAGCTTACTCTTAGACCTACCTAGACAGTTAGACACCTGCTAATTA  
CAATTAGGCAGATCGAAATGAGAAATCTGGATGGAATCTGTCAATCTGTGGACGATTAAT

1210

1230

1250

ATGAGTTCTTCTTTCTGTCAGCAAGTTACCTGTGTACTTGAGAGTTGAGTTAATGG  
TACTCAAAGGAAAAAGAACAAAGTCGTTCAATGGACACAATGAACTCTCAACTCAATTACC

1270

1290

1310

TAGTAAACGCAATTAAACCCTTATAAGTTAACGTTACACGAATGACCCAGAGACTT  
ATCATTGCGTTAAATTGGGAATTCAAATTAGCATAAGTTGTTACTGGGTCTCTGAA

1330

1350

1370

TAAATAAAATCCATCGTAACCCTCCACTTCAAAATTCTTTAAAAAGTAGCAAATCATT  
ATTATTTAGGTAGCATTGGAGGTGAAGTTAAGAAAAATTTCATCGTTAGTAA

1390

1410

1430

AAATATTGTAAGTTGCTTCATTGAAATTGAGCTACAGATCTCAAAGCTCCTCTGTT  
TTTATAACATTCAAACGAAGTAAGCTTAAACATCGATGTCTAGAGTTCGAGGAGGACAA

1450

1470

1490

GGCCATATCTCTCTAACAAACGCATAGTAACACTGACCACAGTTGACTTCTCGGCG  
CCGGTATAGAGAGAGATTGTTGCGTATCATTGTGAACTGGTGTCAAACGTAAAGAGCCGC

1510

1530

1550

GTTTCATGGCGCGACTATGGCAGATTATAATGATCAGATCGTCAATGAGACCTTTTT  
CAAAGTACCGCCGCTGATACCGCTAAATTACTAGTCTAGCAGTTACTCTGGAGAAAAA  
M A A T M A D Y N D Q I V N E T S F Y

1570

1590

1610

ACAACCGAATGGTTCTGAGTCACCTTTGCCGgTGAATCTATGGAACCTTACCaCATT  
TGGTGGCTTAACAGACTCAGTGAAAACGCCACTTAGATAACCTTGGAAATGGtGTAA  
N R M V L S H L L P V N L W E P L P H F

1630

1650

1670

TCCTCCAGACATGGCTCCGGAACTACCTCGCCGGAAACATACTCTACTTCATCTCCGGCT  
AGGAGGTCTGTACCGAGGCCTTGATGGAGCGGCCTTGTATGAGATGAAGTAGAGGCCGA  
L Q T W L R N Y L A G N I L Y F I S G F

1690

1710

1730

TCCTCTGGTCTTCTACATCTATTACCTAAACTCAACGTTACGTCCCCAAAGGTTACT  
AGGAGACCAAGATGTAGATAATGGAATTGAGTTGCAAATGCAGGGGTTCCAATGA  
L W C F Y I Y Y L K L N V Y V P K

1750

1770

1790

TTTTTCAATTCGATGTTCTGTTGAAACCTTCCTTGTTGATTCCCTCGATTGTATC  
AAAAAGTTAACAGCTACAAGACAAACTTGGAAAGAAAACAACAGCTAACATAG

1810

1830

1850

GCCTGATAGATTGTGTTACGTTAACCTTTCTTACTGTTACTTCAGTTCTGTC  
CGGACTATCTAACACAATATGCAATTGGAAAAAGAATGACAATGAAAGTCAAGAACAG

1870

1890

1910

TTCTACTTCTCATTTAATTAGTTAAAGTTAATATTTGGCTAATCCACATTTTA  
AAGATGAAGAGTAAATTAAATCAAAATTCAAATTATAAAAACCGATTAGGTGTAAAAAAT

1930

1950

1970

AGTTGAATCTCCATGAAATTGAGCTCAAATATACCATGAAATTGAAATTGTGGTTC  
TCAACTTAGAAGGTACTTAAACTCGAGTTATATGGTACTTTAACACCAAG

1990

2010

2030

TTAGTTCTATTCTTGCTTGGTTCTCTATTTGTGTTAGAATCCATTCTACGAGA  
AATCAAGATAAAGAACGAAACAAAGAAGATAAAACACCAATCTTAGTAAGGATGCTCT  
E S I P T R

2050

2070

2090

AAGGCAATGCTTTGCAAATATACGTGGCAATGAAGGCTATGCCTGGTACACTCTTCTT  
TTCCGTTACGAAACGTTATATGCACCGTTACTCCGATACGGAACCATGTGAGAAGAA  
K A M L L Q I Y V A M K A M P W Y T L L

2110

2130

2150

CCAGCTGTCTGAGTATATGATCGAGCATGGTGGACAAATGTTACTCTACACTTGAC  
GGTCGACAGAGACTCATATACTAGCTCGTACCAACCTGGTTACAATGAGATGTGAAC TG  
P A V S E Y M I E H G W T K C Y S T L D

2170

2190

2210

CATTTCAACTGGTTCTCTGTTCTACATAGCTCTATCTTGTGTTAGTTGAGTT  
GTAAAGTTGACCAAGGAGACAAAGGAGATGTATCGAGAGATAGAACAAATCAACTCAA  
H F N W F L C F L Y I A L Y L V L V E F

2230

2250

2270

ATGATTATTGGGTTACAAAGAGCTTCATGACATTAATTCTCTATAGCATCTCCAT  
TACTAAATAACCAAGTGTCTCGAAGTACTGTAATTAAAGAGATATTCTAGAGGTA  
M I Y W V H K E L H D I K F L Y K H L H

FIG. 10D

2290 2310 2330

GCTACCCATCATATGTACAACAAGCAAAACACACTCTCTCCATTGCCGGTATGTCAAAG  
CGATGGGTAGTATACATGTTGTTGAGAGAGGTAAACGCCATACAGTTCA  
A T H H M Y N K Q N T L S P F A

2350 2370 2390

CTATATGTTCTCAATCTAAATTCAAGAGCTTGATCAATGGTACTTCTTACTGATGTT  
GATATACAAGAGTTAGATTTAAGTTCTCGAACATAGTTACCACTGAAGAAATGAACATACA

2410 2430 2450

TTTCCGGGTTTCAGGGCTCGCATTCCATCCGCTGGACGGGATACTTCAGGCTATACCGC  
AAAAGCCAAAAGTCCCAGCGTAAGGTAGGCACCTGCCCTATGAAGTCCGATATGGCG  
G L A F H P L D G I L Q A I P H

2470 2490 2510

ACGTGATAGCGCTGTTATAGTGCGATTCTCATACACATCTGAGTCTTGT  
TGCACATCGCAGAAATATCACGGCTAAGTAGAGTATTGTAGACTCAGAAAACAAAA  
V I A L F I V P I H L I T H L S L L F L

2530 2550 2570

TGGAAGGGATATGGACAGCAAGCATCCATGATTGCATACATGGAACATCTGGCCTATAA  
ACCTTCCTATACCTGTCGTTGTTAGGTACTAACGTATGTACCTGAGACGGATATT  
E G I W T A S I H D C I H G N I W P I M

2590 2610 2630

TGGGTGCAGGATACCATACCATACACCATACAACATACAAGCATAACTATGGTCATTATA  
ACCCACGTCCTATGGTATGGTATGGTATGGTATGGTATTGATACCACTGTAATAT  
G A G Y H T I H H T T Y K H N Y G H Y T

2650 2670 2690

CCATATGGATGGACTGGATGTTGGCTCTCTTATGGTCCTTAGCAGAAAAGACAGTT  
GGTATACCTACCTGACCTACAAACCGAGAGAATACCAAGGAAATCGTCTTTCTGTCAA  
I W M D W M F G S L M V P L A E K D S F

2710 2730 2750

TCAAGGAGAAAGAAAAGTGAGAATGTTCAATGCTCACATGTATTCTCATATGTTGCTCT  
AGTTCCCTTTCTTCACTCTTACAAGTTACGAGTGTACATAAGTATAACAGAGA  
K E K E K \*

2770 2790 2810

TCTCGTGAATCTTATTAAAACCTTCTAATCACTTGGTGAATTAAAACATGACTGCA  
AGAGCACTGAGAATAATTGGAAAGATTAGTGAACACCACCTAATTTGTACTGACGT

2830

2850

2870

TAATTTGATGCAAAGTTCAGACTTTATTGCTAAAATCTCTGATGATTATTAACCTCA  
ATTAAAACtACGTTCAAAGTCTGAAAATAACGATTAGAGACTACTAATAATTGGAGT

2890

2910

ATTATATAATTGcTGGATGAAGAGTTCAAATTGGACTAAATCTG  
TAATATATTAAcGACCTACTTCTCAAGTTAACCTGATTAGAC

FIG. 10F

1 maatmadynd qivnetsfyn rmvlshllpv nlweplphfl qtwlrnylag  
51 nilyfisgfl wcfyiyylkl nvyvpkesip trkamllqiy vamkampwyt  
101 llpavseymi ehwgwtkcyst ldhfnwflcf lyialylvlv efmiywvhke  
151 lhdikflykh lhathhmynk qntlspfagl afhpldgilq aiphvialfi  
201 vpihlithls llflegiwta sihdcihgni wpimgagyht ihhttykhny  
251 ghytiwmdwm fgslmvplae kdsfkekek

**FIG. 11**